CTN Test Report 93-011

AFCTB-ID 92-061

Tape Transfer Test

Using:

Sikorsky Aircraft Data

MIL-STD-1840A

Quick Short Test Report

1 October 1992

Prepared for

Electronic Systems Center

CTN Test Report
93-011

AFCTB-ID
92-061

Tape Transfer Test
Using:
Sikorsky Aircraft Data

MIL-STD-1840A

Quick Short Test Report

1 October 1992

Prepared By
Air Force CALS Test Bed
Wright-Patterson AFB, OH 45433

AFCTB Contact
Gary Lammers
(513) 427-2295

CTN Contact
Mel Lammers
(513) 427-2295

DISCLAIMER

This document was prepared as an account of work sponsored by the Air Force. Neither the United States Government or the Air Force nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or the Air Force. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the Air Force, and shall not be used for advertising or product endorsement purposes.

Available to the public from the
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Rd.,
Springfield, VA 22161

This report and those involved in its preparation do not endorse any product, process, or company stated herein. Use of these means by anyone does not imply certification by the CALS Test Network (CTN).

Contents

1. Introduction

1.1 Background

The Department of Defense (DoD) Computer-aided Acquisition and Logistics Support (CALS) Test Network (CTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The CTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the CTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the CTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by CTN participants. They also allow the CTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the CTN technical staff, gain experience using the standards, and develope increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Sikorsky Aircraft's interpretation and use of the CALS standards in transferring technical publications data. Sikorsky used its CALS Technical Data Interchange System to produce data, in accordance with the standards, and delivered it to the CTN technical staff on a 9-track magnetic tape. Only the tape was to be tested.

2. Test Parameters

Test Plan: AFCTB 92-061

Date of Evaluation: 1 October 1992

Evaluators:
George Elwood
Air Force CALS Test Bed
HQ ESC/ENCS
4027 Colonel Glenn Hwy
Suite 200
Dayton, OH 45431-1601

Data Originator:
Frank Kransnicki
Sikorsky Aircraft
MS: B205A
6900 Main Street
Stratford, CT 06601-1381

Data Description: Tape Transfer Test

Data Source System:

MIL-STD-1840A

Evaluation Tools Used:

MIL-STD-1840A (TAPE)
SUN 3/280
CTN *Tapetool v1.2.8 UNIX*
AGFA Compugraphics *CAPS/CALS v40.4*

Standards Tested: MIL-STD-1840A

3. 1840A Analysis

3.1 External Packaging

The tape arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was marked with the magnetic tape warning label, as required by MIL-STD1840A, para. 5.3.1.3.

The tape was enclosed in a barrier bag or barrier sheet material as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed a lack of the label indicating the recording density as required by MIL-STD-1840A, para. 5.3.1. Some 9-track tape units require this BPI to be set manually. No packing list, showing all files that were recorded on the tape, was included in the box.

3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

3.2.1 Tape Formats

The 1840A Tape was run through the AFCTB *Tapetool v1.2.8* utility. Six errors and six notes were generated while evaluating the contents of the tape labels. A note was reported on the tape label version. MIL-STD-1840A permits the use of both versions three and four. The use of the most current standard should be used and noted.

Invalid block size errors were reported for the CGM, Output Specification, and Page Description files. This resulted in *Tapetool* truncating the files. The CGM files should have a block size of 800 instead of the 2048 which was reported by *Tapetool*. The output specification had a block length of 256 when 260 was expected. A block length of 260 includes the data length of 256 plus four for the record control word. See the logs in the appendix to this report.

The incorrect block lengths cause the AGFA *read1840A* utility to do a core dump. See the log in Appendix A of this report.

3.2.2 Declaration and Header Fields

No errors were found in the Document Declaration file headers.

File D001C010's header generated an invalid fixed record length.

An error was reported with the file numbering. After checking the files, it was discovered that the numbering was correct but not in the format that *Tapetool* was expecting. This is not considered an error.

4. IGES Analysis

Not tested.

5. SGML Analysis

Not tested.

6. Raster Analysis

Not tested.

7. CGM Analysis

Not tested.

8. Conclusions and Recommendations

In summary, the MIL-STD-1840A tape from Sikorsky Aircraft had several critical errors. The incorrect blocking of some files resulted in the lose of data. The incorrect blocking also caused another tape utility to generate a core dump.

The tape submitted by Sikorsky Aircraft does not meet the CALS MIL-STD-1840A requirements.

9. Appendix A - Tapetool Report Logs

9.1 Tape Catalog

```
CALS Test Network Catalog Evaluation - Version 1.2; Release Number 8

  Standards referenced:
    MIL-STD-1840A (1987) - Automated Interchange of Technical Information
    MIL-R-28003 (1988) - Digital Representation For Communication Of
                         Illustration Data; CGM Application Profile
    ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes
                        for Information Interchange
    ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Oct  1 16:12:48 1992

MIL-STD-1840A File Catalog

File Set Directory: /cals/tapetool8/Set096

                                                                    Page: 1

                                                  Record
                                                  Format/     Block      Selected/
File Name                 File Type               Length  Length/Total  Extracted
-------------------------------------------------------------------------------
D001                      Document Declaration    D/00260 02048/000001  Extracted
D001G003                  DTD                     D/00260 02048/000019  Extracted
D001G012                  DTD                     D/00260 02048/000003  Extracted
D001T001                  Text                    D/00260 02048/000010  Extracted
D001T002                  Text                    D/00260 02048/000001  Extracted
D001R008                  Raster                  F/00128 02048/000004  Extracted
D001R009                  Raster                  F/00128 02048/000006  Extracted
D001C010                  CGM                     F/00256 02048/000003  Extracted
*** ERROR (MIL-D-28003; 3.1.5) - Invalid Block Size:
    Header => 02048, Expected => 800
*** ERROR (MIL-D-28003; 3.1.5) - Invalid fixed record size encountered.
    Header => 256, Expected => 80
D001C011                  CGM                     F/00256 02048/000037  Extracted
*** ERROR (MIL-D-28003; 3.1.5) - Invalid Block Size:
    Header => 02048, Expected => 800
*** ERROR (MIL-D-28003; 3.1.5) - Invalid fixed record size encountered.
    Header => 256, Expected => 80
D001Q013                  IGES                    F/00080 02000/000443  Extracted
D001Q012                  IGES                    F/00080 02000/000155  Extracted
D001H004                  Output Specification    F/00256 02048/000025  Extracted
*** ERROR - Invalid Recording Format:
    Header => F, Expected => D
```

```
*** NOTE - Unexpected maximum variable record size
    encountered. Header => 256, Expected => 260
*** NOTE (ANSI X3.27; 8.5.2.6) - Record Length for Recording Format Type D
    shall be the maximum length of a Measured Data Unit (MDU).
*** NOTE (ANSI X3.27; 7.2.3) - A variable length record shall be contained
    in an MDU. An MDU consists of a four byte Record Control Word (RCW)
    followed immediately by the variable record.
*** NOTE (ANSI X3.4) - A Record Control Word shall consist of four characters
    that express the sum of the lengths of the RCW and the variable record.
D001P011                PDL                     F/00256 02048/000538  Extracted
*** ERROR - Invalid Recording Format:
    Header => F, Expected => D
*** NOTE - Unexpected maximum variable record size
    encountered. Header => 256, Expected => 260

Catalog Process terminated with 6 error(s), 0 warning(s), and 5 note(s).
```

9.2 Tape Evaluation Log

```
CALS Test Network Tape Evaluation - Version 1.2; Release Number 8
  Standards referenced:
    ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes
                        for Information Interchange
    ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Oct  1 16:11:55 1992

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL1XYVI01                              XYVISION R100                          3

  Label Identifier: VOL1
  Volume Identifier: XYVI01
  Volume Accessibility:
  Owner Identifier: XYVISION R100
  Label Standard Version: 3

*** NOTE  (ANSI X3.27; 8.3.1.8) - The Label Standard Version
    should be 4 to represent the current level of ANSI X3.27.

HDR1D001             XYVI0100010001000100 92190000000 000000XYVISION R100

  Label Identifier: HDR1
  File Identifier: D001
  File Set Identifier: XYVI01
  File Section Number: 0001
  File Sequence Number: 0001
  Generation Number: 0001
  Generation Version Number: 00
  Creation Date:  92190
  Expiration Date: 000000
  File Accessibility:
  Block Count: 000000
  Implementation Identifier: XYVISION R100

HDR2D0204800260                                    00

  Label Identifier: HDR2
  Recording Format: D
  Block Length: 02048
  Record Length: 00260
  Offset Length: 00
```

```
************ Tape Mark ***************

  Actual Block Size Found = 2048 Bytes.

  Number of data blocks read = 1.

************ Tape Mark ***************

EOF1D001             XYVI0100010001000100 92190000000 000001XYVISION R100

  Label Identifier: EOF1
  File Identifier: D001
  File Set Identifier: XYVI01
  File Section Number: 0001
  File Sequence Number: 0001
  Generation Number: 0001
  Generation Version Number: 00
  Creation Date:  92190
  Expiration Date: 000000
  File Accessibility:
  Block Count: 000001
  Implementation Identifier: XYVISION R100

EOF2D0204800260                                    00

  Label Identifier: EOF2
  Recording Format: D
  Block Length: 02048
  Record Length: 00260
  Offset Length: 00

************ Tape Mark ***************

                          <<<<< PART OF LOG REMOVED HERE >>>>>

************ Tape Mark ***************

************ Tape Mark ***************

############ End of Volume XYVI01 ##############

############ End Of Tape File Set ##############

Deallocating /dev/rmt0...

Tape Import Process terminated with 0 error(s), 0 warning(s),
and 1 note(s).
```

9.3 Tape File Set Validation Log

```
CALS Test Network File Set Evaluation - Version 1.2; Release Number 8
  Standards referenced:
    MIL-STD-1840A (1987) - Automated Interchange of Technical Information
    MIL-R-28002 (1989) - Raster Graphics Representation In Binary
                         Format, Requirements For

Thu Oct  1 16:12:48 1992

MIL-STD-1840A File Set Evaluation Log

File Set: Set096

Found file: D001
Renaming file from => /cals/tapetool8/Set096/D001
              to => /cals/tapetool8/Set096/TEMP
Creating directory => /cals/tapetool8/Set096/D001

Renaming file from => /cals/tapetool8/Set096/TEMP
              to => /cals/tapetool8/Set096/D001/D001
Copying file from => /cals/tapetool8/Set096/D001/D001
             to => /cals/tapetool8/Set096/D001/D001_HDR
Extracting Document Declaration Header Records...
Evaluating Document Declaration Header Records...

srcsys: 256
srcdocid: ati_cals_demo
srcrelid: NONE
chglvl: ORIGINAL
dteisu: 19911101
dstsys: Sikorsky Aircraft,  6900 Main St., MSB205A, Stratford, Conn
dstdocid: ati_cals_demo
dstrelid: NONE
dtetrn: 19920518
dlvacc: NONE
filcnt: G2,H1,P1,R2,T2, C2, Q2
ttlcls: UNCLASSIFIED
doccls: UNCLASSIFIED
doctyp: Technical Order
docttl: NONE


Found file: D001G003
Renaming file from => /cals/tapetool8/Set096/D001G003
              to => /cals/tapetool8/Set096/D001/D001G003
Extracting DTD Header Records...
```

```
Evaluating DTD Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
notes: DTD

Saving DTD Header File: D001G003_HDR
Saving DTD Data File: D001G003_DTD

Found file: D001G012
Renaming file from => /cals/tapetool8/Set096/D001G012
              to => /cals/tapetool8/Set096/D001/D001G012
Extracting DTD Header Records...
Evaluating DTD Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
notes: ArborText Math Pack

Saving DTD Header File: D001G012_HDR
Saving DTD Data File: D001G012_DTD

Found file: D001T001
Renaming file from => /cals/tapetool8/Set096/D001T001
              to => /cals/tapetool8/Set096/D001/D001T001
Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
doccls: UNCLASSIFIED
notes: SGML

Saving Text Header File: D001T001_HDR
Saving Text Data File: D001T001_TXT

Found file: D001T002
Renaming file from => /cals/tapetool8/Set096/D001T002
              to => /cals/tapetool8/Set096/D001/D001T002
Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
doccls: UNCLASSIFIED
notes: File entity
```

```
Saving Text Header File: D001T002_HDR
Saving Text Data File: D001T002_TXT

Found file: D001R008
Renaming file from => /cals/tapetool8/Set096/D001R008
              to => /cals/tapetool8/Set096/D001/D001R008
Extracting Raster Header Records...
Evaluating Raster Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: test1g4
doccls: UNCLASSIFIED
rtype: 1
rorient: 000,270
rpelcnt: 001120,000849
rdensty: 0200
notes: NONE

Saving Raster Header File: D001R008_HDR
Saving Raster Data File: D001R008_GR4

Found file: D001R009
Renaming file from => /cals/tapetool8/Set096/D001R009
              to => /cals/tapetool8/Set096/D001/D001R009
Extracting Raster Header Records...
Evaluating Raster Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: seal.dod
doccls: UNCLASSIFIED
rtype: 1
rorient: 000,270
rpelcnt: 000720,000713
rdensty: 0300
notes: NONE

Saving Raster Header File: D001R009_HDR
Saving Raster Data File: D001R009_GR4

Found file: D001C010
Renaming file from => /cals/tapetool8/Set096/D001C010
              to => /cals/tapetool8/Set096/D001/D001C010
Extracting CGM Header Records...
```

```
Evaluating CGM Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: test1cgm
doccls: UNCLASSIFIED
notes: NONE

Saving CGM Header File: D001C010_HDR
Saving CGM Data File: D001C010_CGM
*** I/O ERROR (read_rec) - Invalid fixed record length.
    Fixed bytes read => 64, Expected => 80;
*** NOTE - The file is probably not an ANSI Type F file
    or the last record may not be complete.


Found file: D001C011
Renaming file from => /cals/tapetool8/Set096/D001C011
             to => /cals/tapetool8/Set096/D001/D001C011
Extracting CGM Header Records...
Evaluating CGM Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: test2cgm
doccls: UNCLASSIFIED
notes: NONE

Saving CGM Header File: D001C011_HDR
Saving CGM Data File: D001C011_CGM

Found file: D001Q013
Renaming file from => /cals/tapetool8/Set096/D001Q013
             to => /cals/tapetool8/Set096/D001/D001Q013
Extracting IGES Header Records...
Evaluating IGES Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: test1igs
doccls: UNCLASSIFIED
notes: NONE
```

```
Saving IGES Header File: D001Q013_HDR
Saving IGES Data File: D001Q013_IGS

Found file: D001Q012
Renaming file from => /cals/tapetool8/Set096/D001Q012
              to => /cals/tapetool8/Set096/D001/D001Q012
Extracting IGES Header Records...
Evaluating IGES Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: sh60.sideview
doccls: UNCLASSIFIED
notes: NONE

Saving IGES Header File: D001Q012_HDR
Saving IGES Data File: D001Q012_IGS

Found file: D001H004
Renaming file from => /cals/tapetool8/Set096/D001H004
              to => /cals/tapetool8/Set096/D001/D001H004
Extracting Output Specification Header Records...
Evaluating Output Specification Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
notes: FOSI

Saving Output Specification Header File: D001H004_HDR
Saving Output Specification Data File: D001H004_OS

Found file: D001P011
Renaming file from => /cals/tapetool8/Set096/D001P011
              to => /cals/tapetool8/Set096/D001/D001P011
Extracting PDL Header Records...
Evaluating PDL Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
doccls: UNCLASSIFIED
notes: PostScript version of this document

Saving PDL Header File: D001P011_HDR
Saving PDL Data File: D001P011_PDL

Evaluating numbering scheme...
```

```
*** ERROR (MIL-STD-1840A; 5.1.3) - The data files for Document D001
    were not numbered properly.
*** NOTE (MIL-STD-1840A; 5.1.3) - The first data file for a
    Document shall use "001" and the number shall increment
    sequentially for each file of the Document so that each
    file has a unique file name.
Renumbering data files...
Renumbering Text File from => D001T002 to => D001T012
Renaming file from => /cals/tapetool8/Set096/D001/D001T002
              to => /cals/tapetool8/Set096/D001/D001T012
Renaming file from => /cals/tapetool8/Set096/D001/D001T002_HDR
              to => /cals/tapetool8/Set096/D001/D001T012_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001T002_TXT
              to => /cals/tapetool8/Set096/D001/D001T012_TXT
Renumbering Text File from => D001T001 to => D001T011
Renaming file from => /cals/tapetool8/Set096/D001/D001T001
              to => /cals/tapetool8/Set096/D001/D001T011
Renaming file from => /cals/tapetool8/Set096/D001/D001T001_HDR
              to => /cals/tapetool8/Set096/D001/D001T011_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001T001_TXT
              to => /cals/tapetool8/Set096/D001/D001T011_TXT
Renumbering Raster File from => D001R009 to => D001R010
Renaming file from => /cals/tapetool8/Set096/D001/D001R009
              to => /cals/tapetool8/Set096/D001/D001R010
Renaming file from => /cals/tapetool8/Set096/D001/D001R009_HDR
              to => /cals/tapetool8/Set096/D001/D001R010_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001R009_GR4
              to => /cals/tapetool8/Set096/D001/D001R010_GR4
Renumbering Raster File from => D001R008 to => D001R009
Renaming file from => /cals/tapetool8/Set096/D001/D001R008
              to => /cals/tapetool8/Set096/D001/D001R009
Renaming file from => /cals/tapetool8/Set096/D001/D001R008_HDR
              to => /cals/tapetool8/Set096/D001/D001R009_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001R008_GR4
              to => /cals/tapetool8/Set096/D001/D001R009_GR4
Renumbering IGES File from => D001Q013 to => D001Q008
Renaming file from => /cals/tapetool8/Set096/D001/D001Q013
              to => /cals/tapetool8/Set096/D001/D001Q008
Renaming file from => /cals/tapetool8/Set096/D001/D001Q013_HDR
              to => /cals/tapetool8/Set096/D001/D001Q008_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001Q013_IGS
              to => /cals/tapetool8/Set096/D001/D001Q008_IGS
Renumbering IGES File from => D001Q012 to => D001Q007
Renaming file from => /cals/tapetool8/Set096/D001/D001Q012
              to => /cals/tapetool8/Set096/D001/D001Q007
Renaming file from => /cals/tapetool8/Set096/D001/D001Q012_HDR
              to => /cals/tapetool8/Set096/D001/D001Q007_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001Q012_IGS
              to => /cals/tapetool8/Set096/D001/D001Q007_IGS
```

```
Renumbering PDL File from => D001P011 to => D001P006
Renaming file from => /cals/tapetool8/Set096/D001/D001P011
              to => /cals/tapetool8/Set096/D001/D001P006
Renaming file from => /cals/tapetool8/Set096/D001/D001P011_HDR
              to => /cals/tapetool8/Set096/D001/D001P006_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001P011_PDL
              to => /cals/tapetool8/Set096/D001/D001P006_PDL
Renumbering Output Specification File from => D001H004 to => D001H005
Renaming file from => /cals/tapetool8/Set096/D001/D001H004
              to => /cals/tapetool8/Set096/D001/D001H005
Renaming file from => /cals/tapetool8/Set096/D001/D001H004_HDR
              to => /cals/tapetool8/Set096/D001/D001H005_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001H004_OS
              to => /cals/tapetool8/Set096/D001/D001H005_OS
Renumbering DTD File from => D001G012 to => D001G004
Renaming file from => /cals/tapetool8/Set096/D001/D001G012
              to => /cals/tapetool8/Set096/D001/D001G004
Renaming file from => /cals/tapetool8/Set096/D001/D001G012_HDR
              to => /cals/tapetool8/Set096/D001/D001G004_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001G012_DTD
              to => /cals/tapetool8/Set096/D001/D001G004_DTD
Renumbering CGM File from => D001C011 to => D001C002
Renaming file from => /cals/tapetool8/Set096/D001/D001C011
              to => /cals/tapetool8/Set096/D001/D001C002
Renaming file from => /cals/tapetool8/Set096/D001/D001C011_HDR
              to => /cals/tapetool8/Set096/D001/D001C002_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001C011_CGM
              to => /cals/tapetool8/Set096/D001/D001C002_CGM
Renumbering CGM File from => D001C010 to => D001C001
Renaming file from => /cals/tapetool8/Set096/D001/D001C010
              to => /cals/tapetool8/Set096/D001/D001C001
Renaming file from => /cals/tapetool8/Set096/D001/D001C010_HDR
              to => /cals/tapetool8/Set096/D001/D001C001_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001C010_CGM
              to => /cals/tapetool8/Set096/D001/D001C001_CGM
Updating Map File for Document D001
*** NOTE - 11 file(s) were renumbered.
Numbering scheme evaluation complete.

Checking file count...
No errors were encountered during file count verification.
File Count verification complete.

A total of 1 error(s), 0 warning(s), and 0 note(s) were
encountered in Document D001.

A grand total of 1 error(s), 0 warning(s), and 0 note(s) were
encountered in this File Set.
```

MIL-STD-1840A File Set Evaluation Complete.

9.4 Other Tape Reading Logs

```
/cals/caps/Bin/read1840A: --- Read declaration file 'D001    ' ---
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/aticalsdemo.G.dtd'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/aticalsdemo.G.dtd'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/W.T.sgm'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/W.T.sgm'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/test1g4.R.cci'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/sealdod.R.cci'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/test1cgm.C.cgm'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/test2cgm.C.cgm'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/test1igs.Q.igs'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/sh60sideview.Q.igs'.
/cals/caps/Bin/read1840A: file error: expected 'srcdocid...', saw 'ocid: ati_cals_demo
dstdocid: ati_cals_demo
notes: FOSI
<!DOCTYPE OUTSPEC PUBLIC "-//ArborText//DTD OUTPUT SPEC 910815//EN" [
<!--The Publisher, ArborText, Inc., 1988-1991, v.4001-->
<!ENTITY % test "IGNORE">
]>
<?Pub UDT eic e-i-c>
<?Pub Inc>
<outspec>
<!--No warranties are expressed or implied as the suitability of this FOSI
for preparation of MIL-M-63036C documents.--><?Pub Caret>
<rsrcdesc>
<charfill literal=" . " cfid="tocfill">
<charfill literal=" " cfid="spfill">
<charfill literal="_" orient="horiz" type="ff" cfid="underfill">
<counter enumid="ftnct" style="arabic" initial="0">
<counter initial="1" style="arabic" enumid="folioct">
<counter initial="1" style="romanlc" enumid="ifolioct">
<counter enumid="figct" style="arabic" initial="0">
<counter enumid="tabct" style="arabic" initial="0">
<counter enumid="chct" style="romanuc" initial="0">
<counter initial="0" style="arabic" enumid="sectct">
<counter initial="0" style="arabic" enumid="paract">
<counter initial="0" style="arabic" enumid="sp1ct">
<counter initial="0" style="arabic" enumid="sp2ct">
<counter initial="0" style="arabic" enumid="sp3ct">
<counter initial="0" style="arabic" enumid="step1ct">
<counter initial="0" style="alphalc" enumid="step2ct">
<counter initial="0" style="romanlc" enumid="step3ct">
<counter initial="1" style="arabic" enumid="seqlistct">
```

```
<counter initial="0" style="arabic" enumid="seq1ct">
<counter initial="0" style="alphalc" enumid="seq2ct">
<counter initial="0" style="romanlc" enumid="seq3ct"></rsrcdesc>
<pagedesc>
<pageset id="nstm">
<rectopg>
<pagespec>
<topmarg nomdepth="4pi">
<botmarg nomdepth="2pi">
<leftmarg width="5pi">
<rtmarg width="5pi">
<header>
<usetext source="\Digital Database\,spfill,docno,\/\,chhdno,spfill,\Complete thru Change 1\"
placemnt="before">
<subchars>
<quadding lastquad="ljustify" quad="justify"></subchars>
</usetext>
<usetext source="\_\,underfill,\_\" placemnt="after">
<subchars>
<presp minimum="-3pt" nominal="-3pt" maximum="-3pt">
<textbrk startln="1"></subchars>
</usetext>
</header>
<footer>
<uset
```